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MINUTES OF THE MEETING OF THE ASTRONOMICAL SOCIETY OF THE
PACIFIC, HELD IN SAN FRANCISCO, AT 408 CALIFORNIA
STREET, JANUARY 31, 1891.

President HOLDEN being absent, Vice-President PIERSON presided.

The minutes of the last meeting were read and approved.

A list of presents was read by the Secretary, and the thanks of the Society voted to the givers.

The Secretary read the names of members duly elected at the meeting of the Directors.

It was announced that a seal had been adopted by the Society.

On motion, the following Committees were appointed by the Chair, to report at the annual meeting, March 28, 1891:

A committee of three—Messrs. F. R. ZIEL, J. H. JOHNSON, A. O. LEUSCHNER—to audit the accounts of the Treasurer.

A committee of five—Messrs. OTTO V. GELDERN, A. J. TREAT, W. A. DEWEY, WARREN B. EWER, W. H. LOWDEN—to nominate a Board of eleven Directors and a Publication Committee of three members and to prepare and print suitable ballots to be voted at the annual meeting. The committee was requested to print the ballots in the same form as at the last election—that is to say, so as to allow *MS.* substitutions to be easily made for the names proposed by them.

The new amendment to the By-Laws, relating to the organization of sections of the A. S. P., was then read, and the organization of the Chicago Section, of 24 members, was announced.

The following papers were announced:

a. The Carleton College Observatory, by the Director, Prof. W. W. PAYNE.

b. The August Meteors, by W. H. S. MONCK, Dublin, Ireland.

c. Corrections to WATSON'S Theoretical Astronomy, by W. W. CAMPBELL, Ann Arbor, Michigan.

d. Notes on Dark Transits of *Jupiter's* Satellites, by JOHN TEBBUTT, Windsor, N. S. W.

Mr. PIERSON read an account of M. JANSSEN'S ascent of Mont Blanc (printed in the present number of the *Publications*), and Mr. KEELER gave an account of his recent spectroscopic observations of the Nebula of *Orion*, which give the motion of the nebula referred to the solar system, and at the same time the normal position of the principal line of nebular spectra. A discussion of the latter subject followed, in which many of the members took part.

MINUTES OF A MEETING HELD NOVEMBER 20, 1890, FOR THE
PURPOSE OF ORGANIZING A CHICAGO SECTION OF THE
ASTRONOMICAL SOCIETY OF THE PACIFIC.

A meeting, for the purpose of organizing a Chicago Section of the Astronomical Society of the Pacific, was held Thursday evening, November 20, 1890, at 4545 Drexel Boulevard, Chicago. GAYTON A. DOUGLASS was chosen Chairman and GEO. E. HALE Secretary *pro tem.*

The Secretary gave an account of the formation and objects of the A. S. P., and also Professor HOLDEN'S advice in regard to meetings of the Chicago members.

After some discussion, it was moved by Dr. EWELL, and duly seconded, that application for membership in the A. S. P. should be made on condition that a distinct "Chicago Section" be recognized by the parent body. This was put to vote, without debate, and carried.

The question of place of meeting was raised by Mr. SMITH.

A general discussion followed, in which the tower of the South Church was offered by Dr. WILLIAMS, and the Kenwood Observatory by the Secretary. The matter was left to the Executive Committee, to be appointed.

The Chairman and Secretary *pro tem* were elected permanently to these offices, with power to appoint an Executive Committee, to consist of five members, including the Chairman and Secretary.

It was proposed by Dr. EWELL, that the general subject of astronomy be divided into a number of departments, and that members be given the choice of subjects, in order that each may have a special field of work. This suggestion was well received, and left to the Executive Committee.

The programme and time and place of the next meeting were also left to the Executive Committee.

A discussion followed as to an exhibit of astronomical and spectroscopic photographs at the World's Columbian Exposition. It was considered very desirable that such an exhibit be secured, and that this Section take an active part in the matter.

The meeting was then adjourned; after which the spectroscopic laboratories of the Kenwood Observatory were visited, at the invitation of the Secretary. The arc spectrum of iron and the reversal of the sodium lines were shown with the ROWLAND concave grating spectroscope.

The following were appointed on the Executive Committee, to act with the Chairman and Secretary: R. W. PIKE, C. B. THWING and M. D. EWELL.

The following applications for membership in the A. S. P. and in the Chicago Section have been received to date:

RUTHVEN W. PIKE (life member), 166 La Salle St., Chicago.

Professor C. B. THWING, Northwestern University, Evanston, Ill.

FRANK M. SMITH (care D. B. FISK & Co.), Chicago.

GAYTON A. DOUGLASS, 185 Wabash Ave., Chicago.

A. C. BEHR, Bloomington, Ill.

Professor C. S. COOK, Northwestern University, Evanston, Ill.

FERD. ELLERMAN, 5729 Kimbark Ave., Chicago.

Dr. H. W. ROGERS, Northwestern University, Evanston, Ill.

Rev. Dr. E. F. WILLIAMS, 4018 Drexel Boulevard, Chicago.

W. E. HALE, 4545 Drexel Boulevard, Chicago.

G. W. HALE, 4545 Drexel Boulevard, Chicago.

FRANCIS BRADLEY, Evanston, Ill.

Dr. M. D. EWELL, 97 Clark St., Chicago.

Dr. H. H. BELFIELD, Chicago Manual Training School, Chicago.

F. S. OSBORN, Montauk Block, Chicago.

C. O. BORING (care J. V. FARWELL & Co.), Chicago.

D. H. BURNHAM, "Rookery" Building, Chicago.

J. W. ROOT, "Rookery" Building, Chicago.*

NORMAN B. REAM, 1901 Prairie Ave., Chicago,

Professor G. W. HOUGH, Dearborn Observatory, Evanston, Ill.

A. E. ADAMS, 4020 Drexel Boulevard, Chicago.

G. W. RITCHEY, 5916 Wright St., Englewood, Ill.

J. R. STEWART, 1135 Dunning St., Chicago.

GEORGE E. HALE, Kenwood Physical Observatory, Chicago.

GEORGE E. HALE, *Secretary*.

* Died January 15, 1891.